

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12225

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H02N13/00, H01L21/68, B65G49/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H02N13/00, H01L21/68, B65G49/07

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2002-270682 A (Toshiba Corp.), 20 September, 2002 (20.09.02), Par. Nos. [0048] to [0067]; Figs. 1 to 6 (Family: none)	1, 2, 4, 6-7, 9 5, 8
X Y	US 5997962 A (Tokyo Electron Ltd.), 07 December, 1999 (07.12.99), Column 4, line 11 to column 17, line 13; all drawings & JP 2879887 B2	3 5, 8
Y	JP 2000-326242 A (Sony Corp.), 28 November, 2000 (28.11.00), Par. No. [0013]; Fig. 1 (Family: none)	5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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Date of the actual completion of the international search
12 December, 2003 (12.12.03)

Date of mailing of the international search report
13 January, 2004 (13.01.04)

Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 95/25689 A1 (The Kanagawa Academy of Science), 28 September, 1995 (28.09.95), Page 5, line 4 to page 7, line 4; Figs. 4, 5 & US 5789843 A & JP 7-257751 A	8
E, Y	JP 2003-282671 A (Tsukuba Seiko Kabushiki Kaisha), 03 October, 2003 (03.10.03), Par. Nos. [0034] to [0083]; all drawings (Family: none)	1-9
Y	US 4751609 A (Kabushiki Kaisha Abisare), 14 June, 1988 (14.06.88), Column 2, line 11 to column 3, line 40; all drawings & JP 4-58274 B2	1-9
Y	JP 4-162443 A (Japan Synthetic Rubber Co., Ltd.), 05 June, 1992 (05.06.92), Page 2, lower right column, line 17 to page 4, lower right column, line 9; all drawings (Family: none)	1-9
Y	JP 7-4718 B2 (Canon Inc.), 25 January, 1995 (25.01.95), Column 4, line 29 to column 5, line 19; Fig. 1 (Family: none)	1-9
Y	JP 62-255039 A (Kureha Chemical Industry Co., Ltd.), 06 November, 1987 (06.11.87), Page 2, upper right column, line 9 to page 5, lower left column, line 10; all drawings (Family: none)	1-9
Y	JP 6-155214 A (Kabushiki Kaisha Abisare), 03 June, 1994 (03.06.94), Par. Nos. [0013] to [0062]; all drawings (Family: none)	1-9